

FIG. 1

1007627.021002

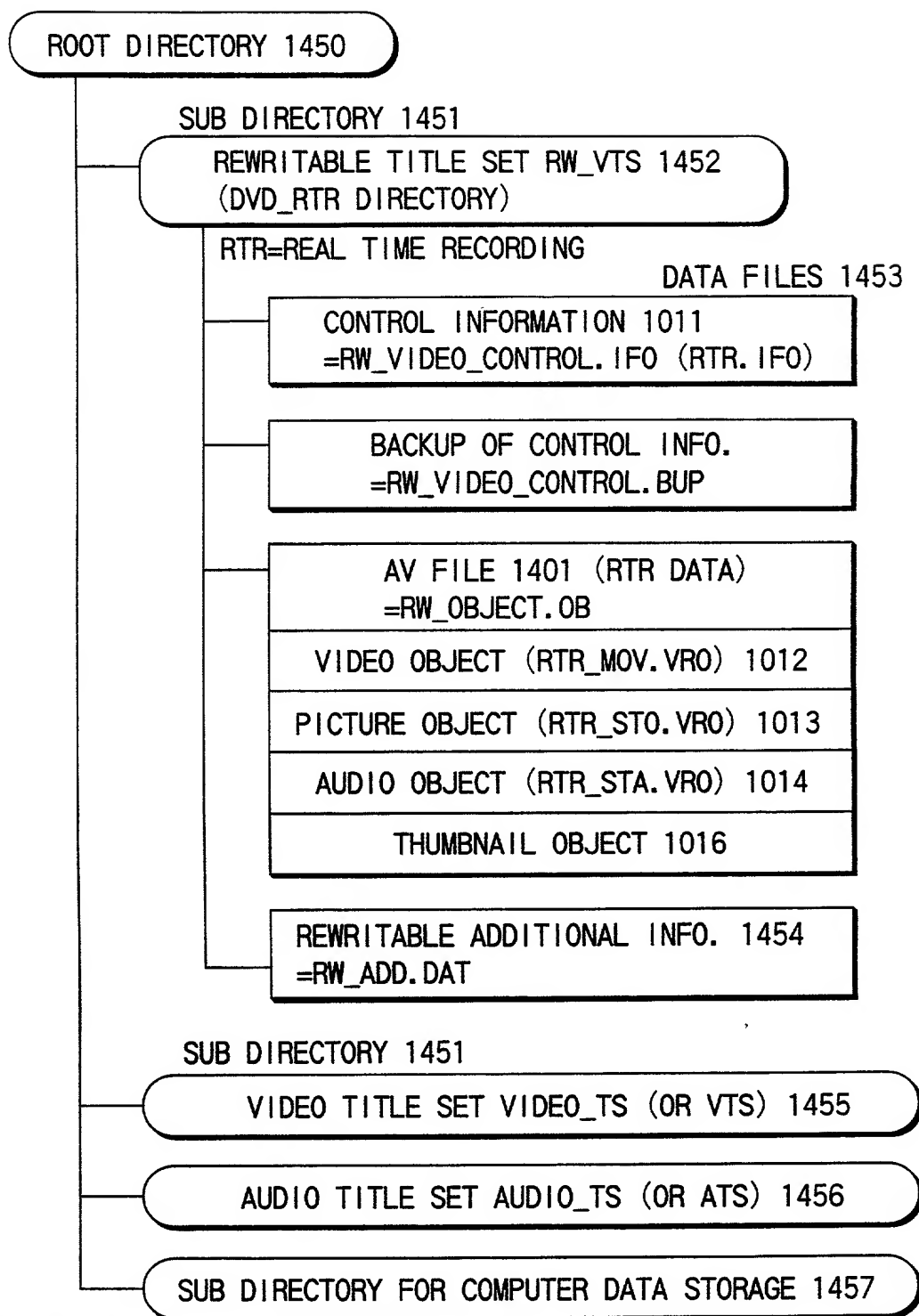


FIG. 2

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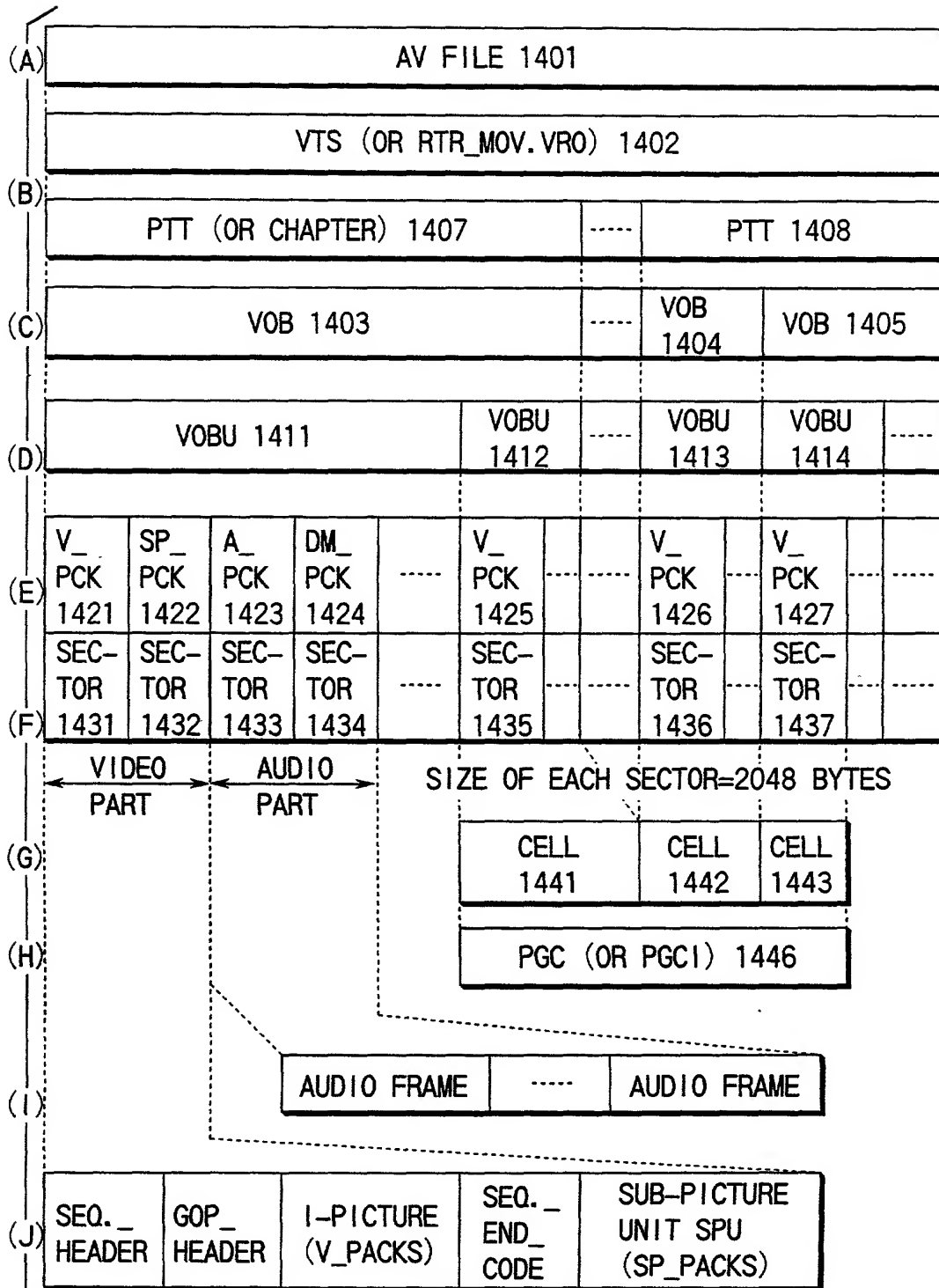


FIG. 3

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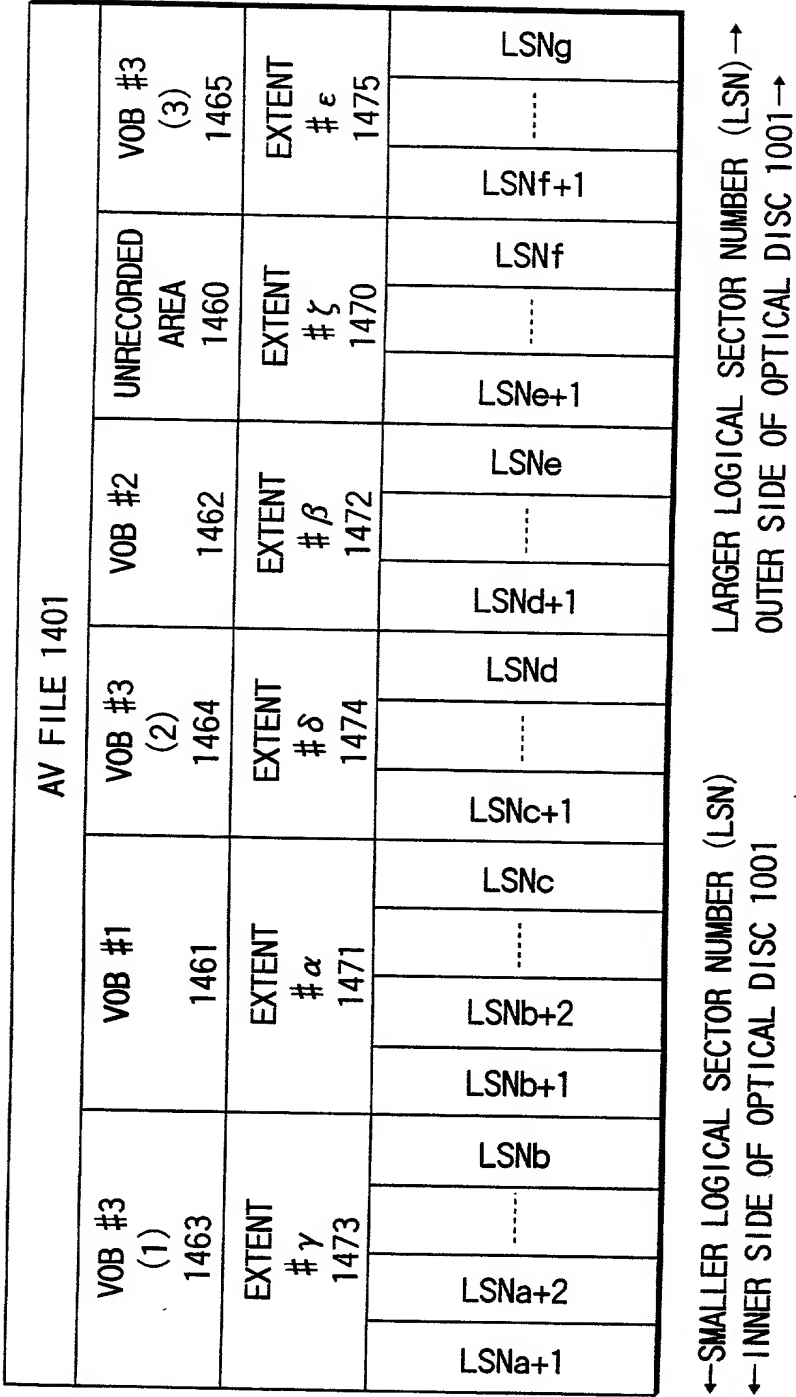


FIG. 4

CONTENTS OF  
ALLOCATION  
MAP TABLE  
1105

DISTRIBUTION  
INFORMATION OF  
POSITIONS OF  
UNRECORDED  
AREA 1621

DISTRIBUTION  
INFORMATION OF  
POSITIONS OF  
RECORDED DATA  
AS TO VOB #1  
1622

DISTRIBUTION  
INFORMATION OF  
POSITIONS OF  
RECORDED DATA  
AS TO VOB #2  
1623

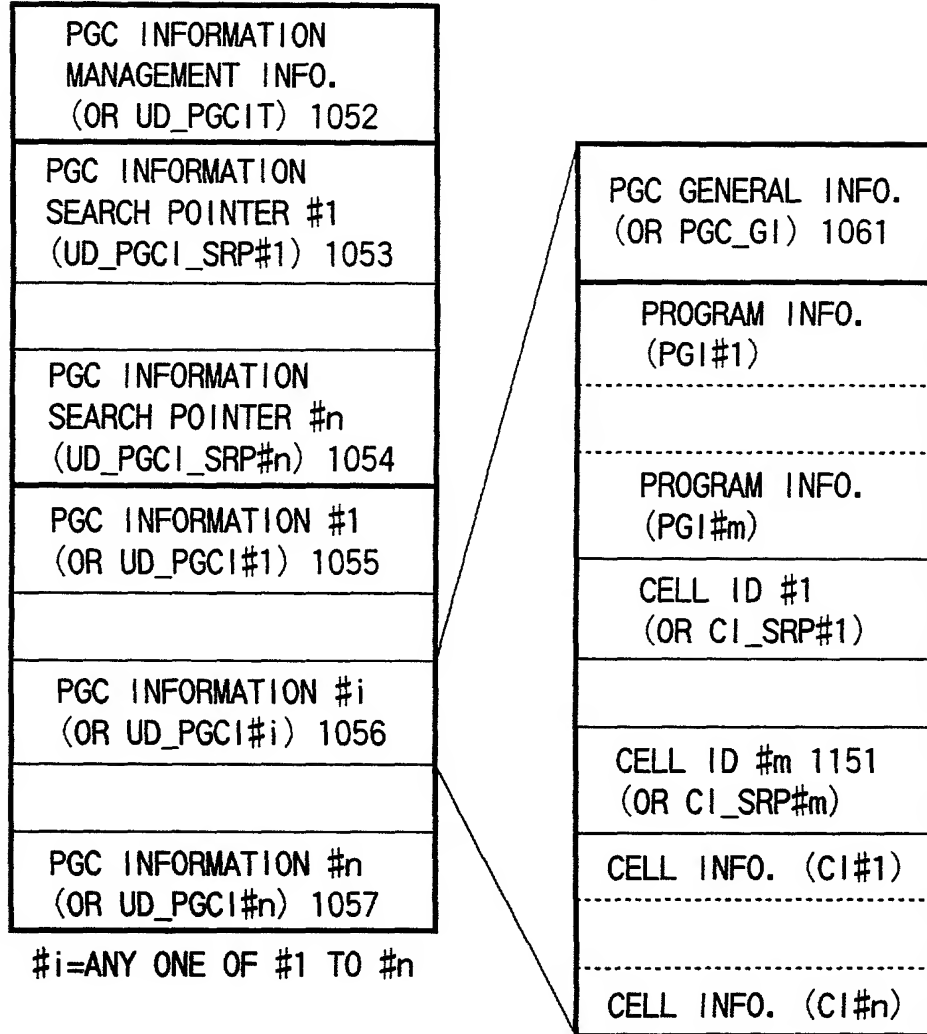
DISTRIBUTION  
INFORMATION OF  
POSITIONS OF  
RECORDED DATA  
AS TO VOB #3  
1624

|  |     |
|--|-----|
| NUMBER OF EXTENTS IN UNRECORDED AREA 1601            | 1   |
| 1ST ADR. (LSN) OF 1ST EXTENT IN UNRECORDED AREA 1606 | e-a |
| SIZE (SECTORS) OF 1ST EXTENT IN UNRECORDED AREA 1614 | f-e |
| NUMBER OF EXTENTS IN VOB #1 1602                     | 1   |
| 1ST ADR. (LSN) OF 1ST EXTENT IN VOB #1 1607          | b-a |
| SIZE (SECTORS) OF 1ST EXTENT IN VOB #1 1615          | c-b |
| NUMBER OF EXTENTS IN VOB #2 1603                     | 1   |
| 1ST ADR. (LSN) OF 1ST EXTENT IN VOB #2 1608          | d-a |
| SIZE (SECTORS) OF 1ST EXTENT IN VOB #2 1616          | e-d |
| NUMBER OF EXTENTS IN VOB #3 1604                     | 3   |
| 1ST ADR. (LSN) OF 1ST EXTENT IN VOB #3 1609          | 1   |
| SIZE (SECTORS) OF 1ST EXTENT IN VOB #3 1617          | b-a |
| 1ST ADR. (LSN) OF 2ND EXTENT IN VOB #3 1610          | c-a |
| SIZE (SECTORS) OF 2ND EXTENT IN VOB #3 1618          | d-c |
| 1ST ADR. (LSN) OF 3RD EXTENT IN VOB #3 1611          | f-a |
| SIZE (SECTORS) OF 3RD EXTENT IN VOB #3 1619          | g-f |

FIG. 5

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PGC CONTROL INFO. (OR UD\_PGCIT) 1103



- \*1> PGC INFORMATION (OR UD\_PGCI) CAN DEFINE  
A GROUP OF ONE OR MORE PROGRAMS;
- \*2> EACH PROGRAM CAN BE FORMED OF ONE OR MORE CELLS;
- \*3> EACH CELL CAN BE SPECIFIED BY CELL ID (OR CI\_SRP);
- \*4> EACH CELL ID (OR CI\_SRP) CAN INDICATE POSITION  
(OR START ADDRESS) OF CELL INFORMATION (OR CI);
- \*5> EACH CELL INFORMATION (OR CI) CAN DETERMINE  
START TIME AND END TIME OF PRESENTATION OF CELL

FIG. 6

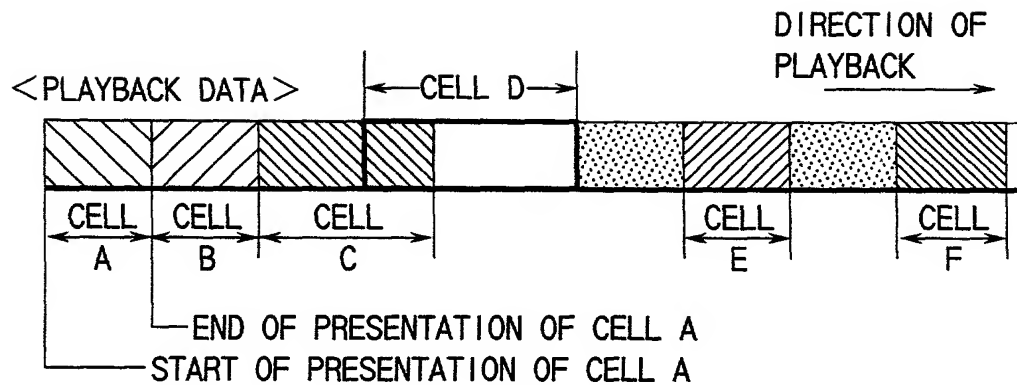


FIG. 7A

PGC INFORMATION (PGCI)

| PGC#1 1081        |            | PGC#2 1082        |            | PGC#3 1083        |            |
|-------------------|------------|-------------------|------------|-------------------|------------|
| NUMBER OF CELLS=3 |            | NUMBER OF CELLS=3 |            | NUMBER OF CELLS=5 |            |
| #1                | CELL A     | #1                | CELL D     | #1                | CELL E     |
| #2                | CELL B     | #2                | CELL E     | #2                | CELL A     |
| #3                | CELL C     | #3                | CELL F     | #3                | CELL D     |
| —                 | —          | —                 | —          | #4                | CELL B     |
| —                 | —          | —                 | —          | #5                | CELL E     |
| CELL ID           | CELL INFO. | CELL ID           | CELL INFO. | CELL ID           | CELL INFO. |
| CI_SRP #m=3       | CI #n=3    | CI_SRP #m=3       | CI #n=3    | CI_SRP #m = 5     | CI #n=4    |

FIG. 7B

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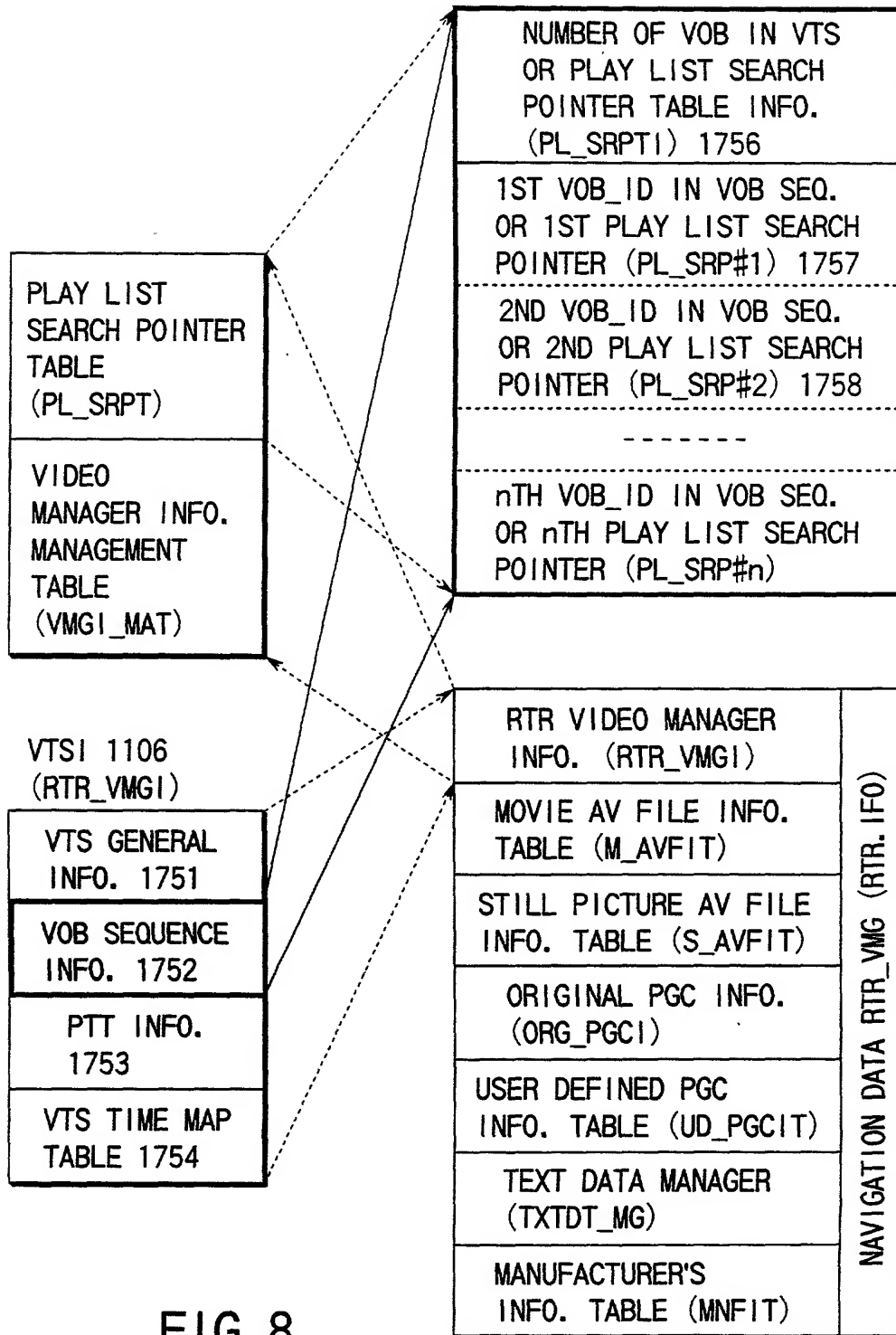


FIG. 8



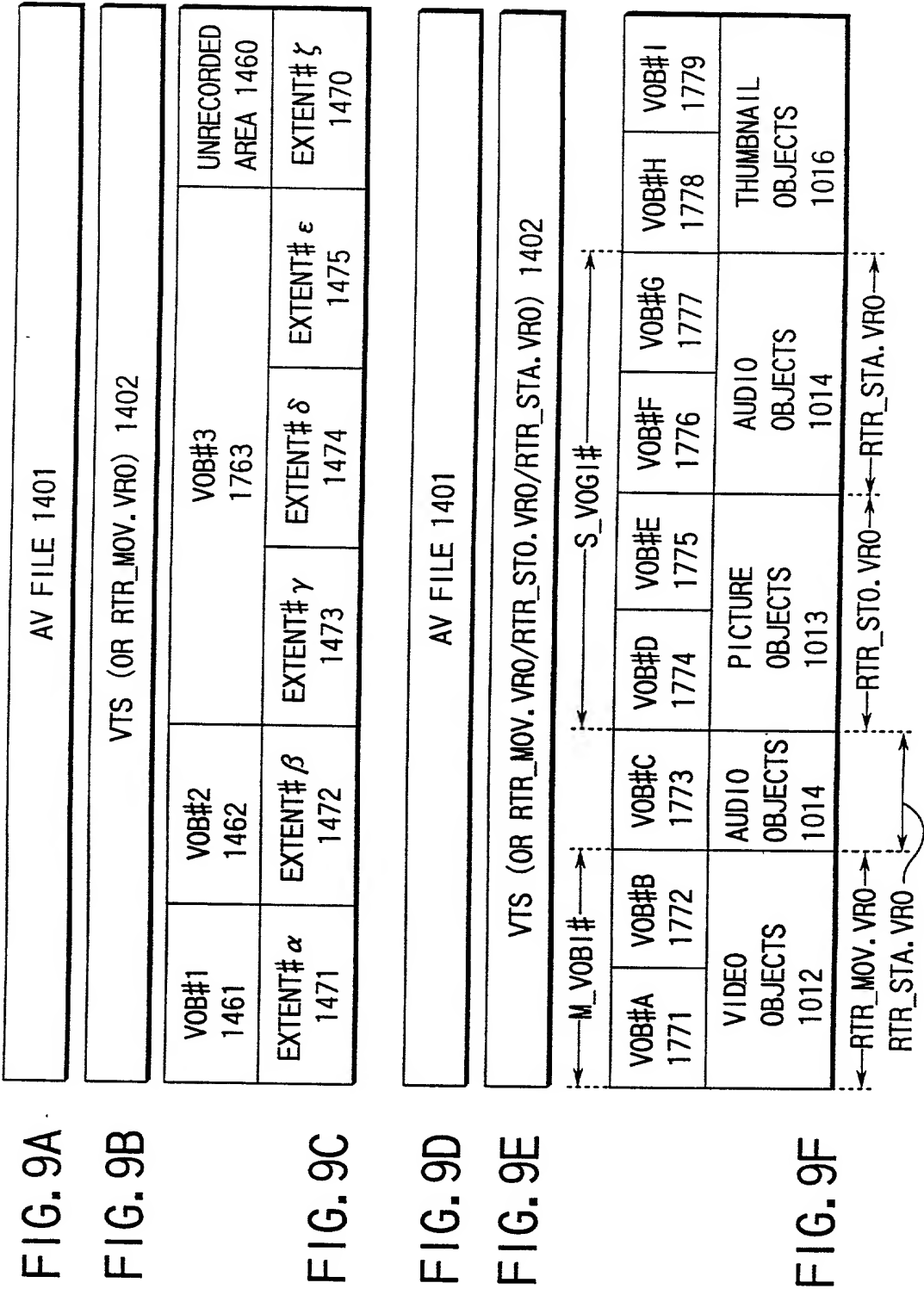


FIG. 10A

|   |
|---|
| VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGL#) 1631 |
|---|

FIG. 10B

|                                   |
|-----------------------------------|
| VOBU (FOR ONE STILL PICTURE) 1641 |
|-----------------------------------|

FIG. 10C

|                |               |               |                |               |               |
|----------------|---------------|---------------|----------------|---------------|---------------|
| V_PCK<br>1661  | V_PCK<br>1662 | V_PCK<br>1663 | SP_PCK<br>1681 | A_PCK<br>1691 | A_PCK<br>1692 |
| I-PICTURE 1706 |               | DUMMY DATA    |                | SP_STREAM     | A_STREAM      |

← VIDEO PART      AUDIO PART →

FIG. 10D

|   |
|---|
| VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGL#) 1632 |
|---|

FIG. 10E

|                            |           |           |
|----------------------------|-----------|-----------|
| VOBU(ONE STILL PICT.) 1642 | VOBU 1643 | VOBU 1644 |
|----------------------------|-----------|-----------|

FIG. 10F

|               |                |               |               |               |               |               |               |
|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| V_PCK<br>1664 | SP_PCK<br>1682 | A_PCK<br>1693 | V_PCK<br>1665 | A_PCK<br>1694 | V_PCK<br>1666 | V_PCK<br>1667 | A_PCK<br>1695 |
|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|

FIG. 10G VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S\_VOGL#) 1633

|                               |  |  |           |  |  |       |           |
|-------------------------------|--|--|-----------|--|--|-------|-----------|
| VOBU (ONE STILL PICTURE) 1645 |  |  | VOBU 1646 |  |  | ----- | VOBU 1647 |
|-------------------------------|--|--|-----------|--|--|-------|-----------|

|                |               |               |                |                |               |               |               |                |       |
|----------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|-------|
| V_PCK<br>1668  | V_PCK<br>1669 | V_PCK<br>1670 | SP_PCK<br>1683 | V_PCK<br>1671  | V_PCK<br>1672 | V_PCK<br>1673 | -----         | V_PCK<br>1674  | ----- |
| I-PICTURE 1707 |               |               | DUMMY<br>1704  | I-PICTURE 1708 |               |               | DUMMY<br>1705 | I-PICTURE 1709 |       |

FIG. 101

FIG. 10J VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S\_VOGL#) 1634

|                               |  |  |           |  |  |       |           |
|-------------------------------|--|--|-----------|--|--|-------|-----------|
| VOBU (ONE STILL PICTURE) 1648 |  |  | VOBU 1649 |  |  | ----- | VOBU 1650 |
|-------------------------------|--|--|-----------|--|--|-------|-----------|

|                |               |               |               |               |               |               |            |               |       |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|------------|---------------|-------|
| SP_PCK<br>1684 | A_PCK<br>1696 | A_PCK<br>1697 | A_PCK<br>1698 | A_PCK<br>1699 | A_PCK<br>1700 | A_PCK<br>1701 | -----      | A_PCK<br>1702 | ----- |
| AUDIO PART     |               |               | AUDIO PART    |               |               |               | AUDIO PART |               |       |

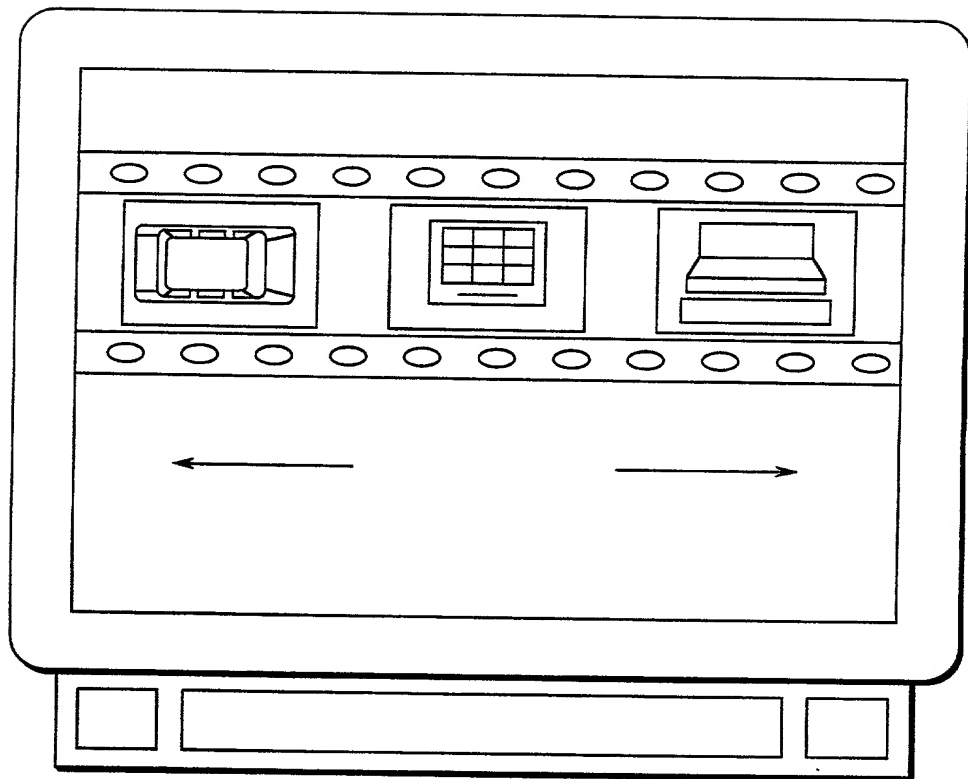
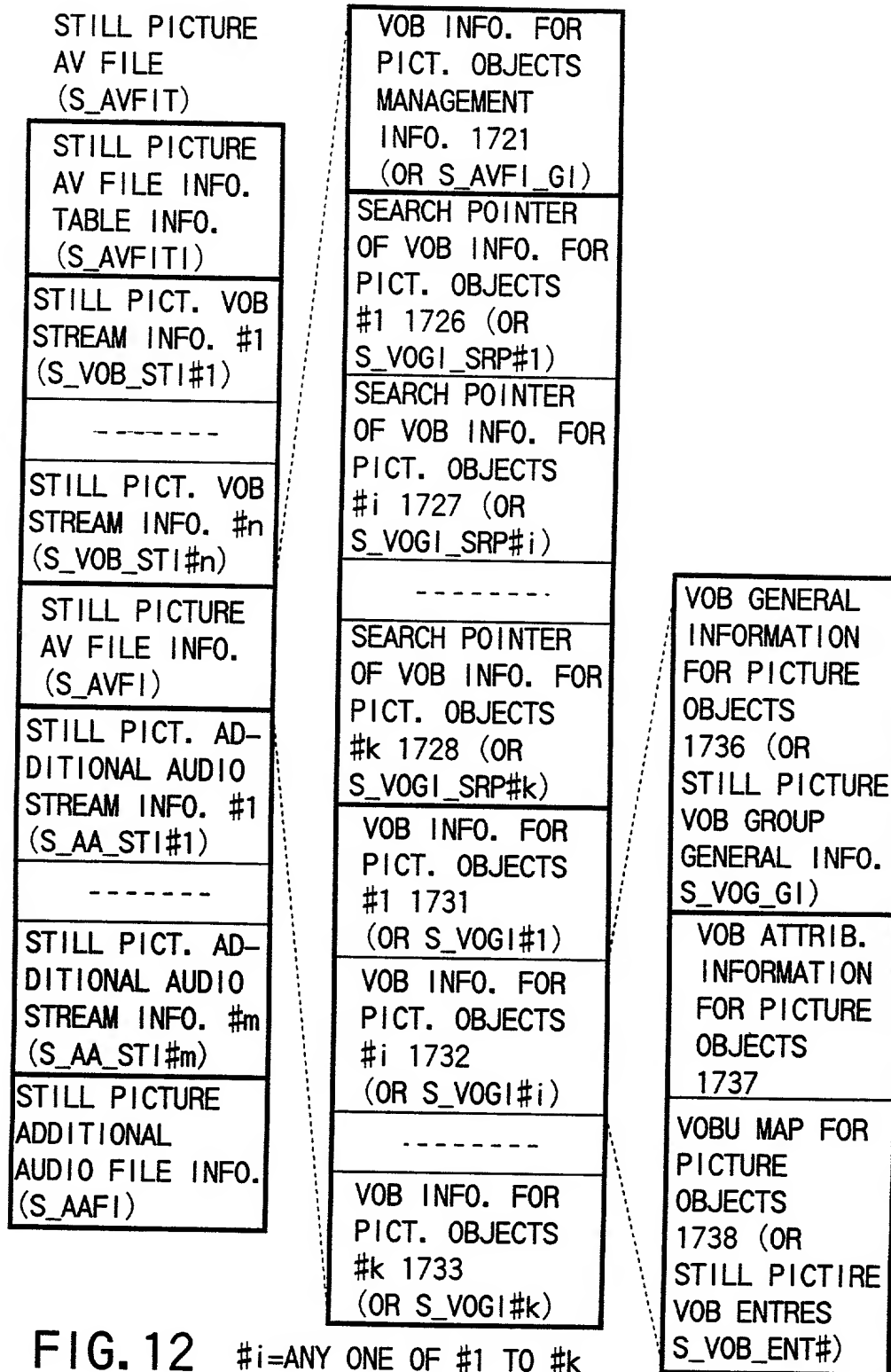


FIG. 11

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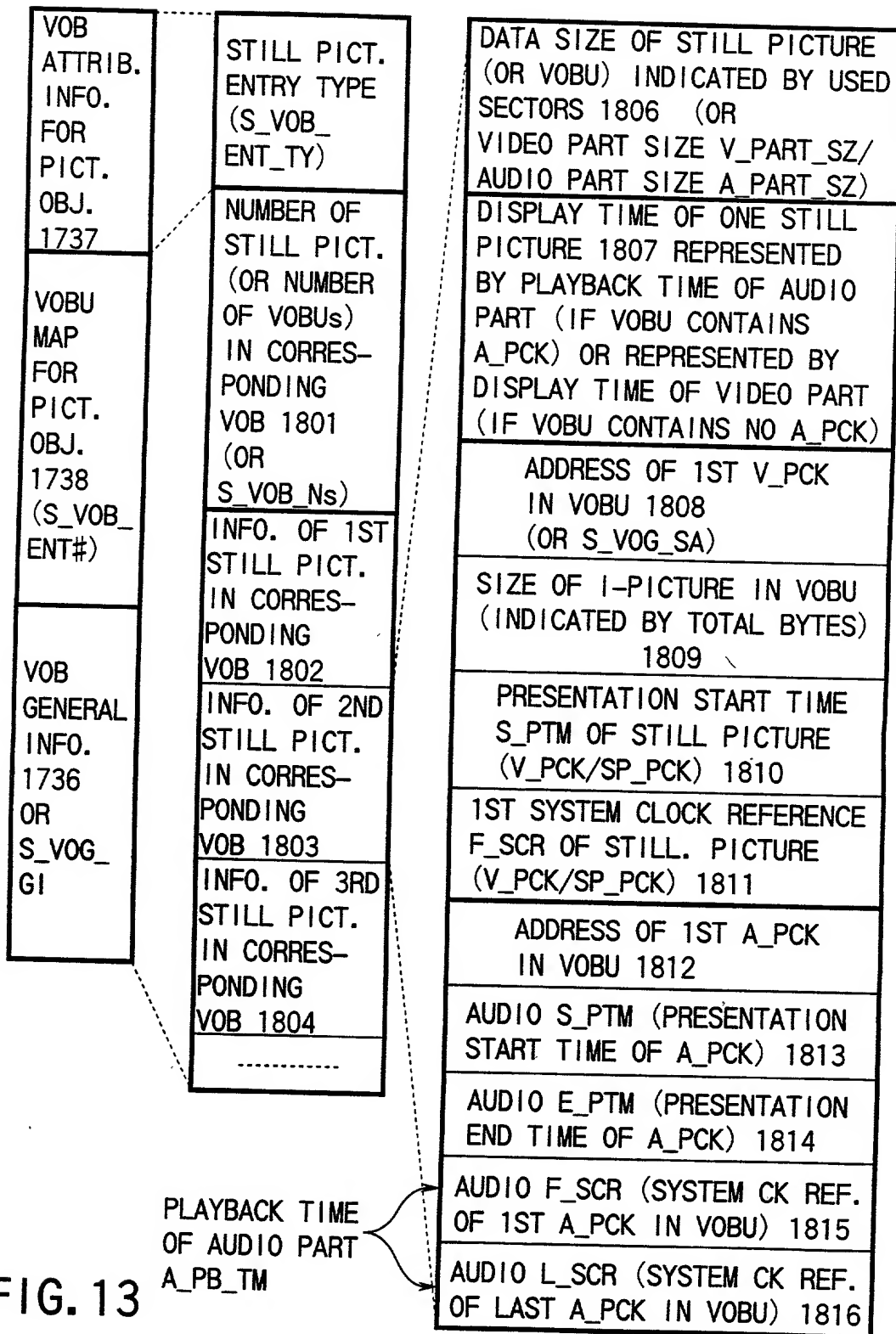


FIG. 13

FIG. 14A

|             |           |
|-------------|-----------|
| VOB #A 1821 |           |
| VOBU 1825   | VOBU 1826 |

FIG. 14B

|                   |                   |
|-------------------|-------------------|
| STILL PICT. NO. 1 | STILL PICT. NO. 2 |
| STILL PICT. NO. h | STILL PICT. NO. h |

FIG. 14C

|             |            |             |            |             |            |
|-------------|------------|-------------|------------|-------------|------------|
| STLPCT 1831 | AUDIO 1841 | STLPCT 1832 | AUDIO 1842 | STLPCT 1833 | AUDIO 1843 |
| V_PCK 1851  | A_PCK 1861 | V_PCK 1852  | SP_PK 1848 | V_PCK 1853  | A_PCK 1863 |

FIG. 14D

|                            |            |                         |            |                          |            |
|----------------------------|------------|-------------------------|------------|--------------------------|------------|
| CONTENTS SPECIFIED BY CELL |            | 1ST STILL PICT. IN CELL |            | LAST STILL PICT. IN CELL |            |
| V_PCK 1852                 | SP_PK 1848 | A_PCK 1865              | V_PCK 1853 | V_PCK 1854               | A_PCK 1866 |

FIG. 14E

|            |             |            |             |             |            |             |
|------------|-------------|------------|-------------|-------------|------------|-------------|
| A_PCK 1864 | V_PCK 1855  | A_PCK 1865 | V_PCK 1856  | V_PCK 1857  | A_PCK 1866 | V_PCK 1858  |
| AUDIO 1844 | STLPCT 1835 | AUDIO 1845 | STLPCT 1836 | STLPCT 1837 | AUDIO 1846 | STLPCT 1838 |

FIG. 14F

|                     |                         |
|---------------------|-------------------------|
| STILL PICTURE NO. j | STILL PICTURE NO. h+j-2 |
| VOBU 1828           | VOBU 1829               |

FIG. 14G

|             |  |
|-------------|--|
| VOB #B 1822 |  |
|-------------|--|

| CONTENTS (S_CI) OF CELL<br>PLAYBACK INFO. (CI) FOR<br>PICTURE OBJECTS 1870                           | EXAMPLE 1871<br>WITH RESPECT<br>TO FIG.14 | EXAMPLE 1872<br>WITH RESPECT<br>TO FIG.14 |
|--|---|---|
| CELL ID (CI_SRP) 1873  | _____                                     | _____                                     |
| TYPE INFORMATION OF<br>CELL (C_TY) 1880  | _____                                     | _____                                     |
| ID INFORMATION OF VOB<br>WITH V_PCK 1874   | VOB #A                                    | 1821                                      |
| STILL PICT. NUMBER 1875<br>IN VOB INCLUDING V_PCK<br>OF 1ST STILL PICTURE<br>IN CELL (S_S_VOB_ENTN)  | 2   | 1826                                      |
| STILL PICT. NUMBER 1876<br>IN VOB INCLUDING V_PCK<br>OF LAST STILL PICTURE<br>IN CELL (E_S_VOB_ENTN) | h   | 1827                                      |
| ID INFORMATION OF VOB<br>WITH A_PCK 1877   | VOB #B                                    | 1822                                      |
| STILL PICT. NUMBER 1878<br>IN VOB INCLUDING A_PCK<br>OF 1ST STILL PICTURE<br>IN CELL                 | j   | 1828                                      |
| PRESENTATION TIME 1879<br>OF EACH STILL PICTURE<br>HAVING NO<br>CORRESPONDING A_PCK                  | 2 SECONDS<br>(ONE LINE)                   | _____                                     |

FIG.15

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|   |
|---|
| CONTENTS OF CELL PLAYBACK INFO. (CI) FOR PTT  |
| CELL ID (CI_SRP) 1883   |
| TYPE INFO. OF CELL (C_TY) 1882  |
| ID INFO. OF PTT WITH V_PCK 1884   |
| STILL PICTURE NUMBER 1885<br>IN PTT OF VOB INCLUDING V_PCK<br>OF 1ST STILL PICTURE IN CELL  |
| STILL PICTURE NUMBER 1886<br>IN PTT OF VOB INCLUDING V_PCK<br>OF LAST STILL PICTURE IN CELL |
| ID INFO. OF PTT WITH A_PCK 1887   |
| STILL PICTURE NUMBER 1888<br>IN PTT OF VOB INCLUDING A_PCK<br>OF 1ST STILL PICTURE IN CELL  |
| PRESENTATION TIME 1889<br>OF EACH STILL PICT. HAVING<br>NO CORRESPONDING A_PCK              |

FIG.16

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20051220 1629/007

STILL PICTURE AV FILE INFO.  
(S\_AVFI) FOR PTT (CHAPTER)

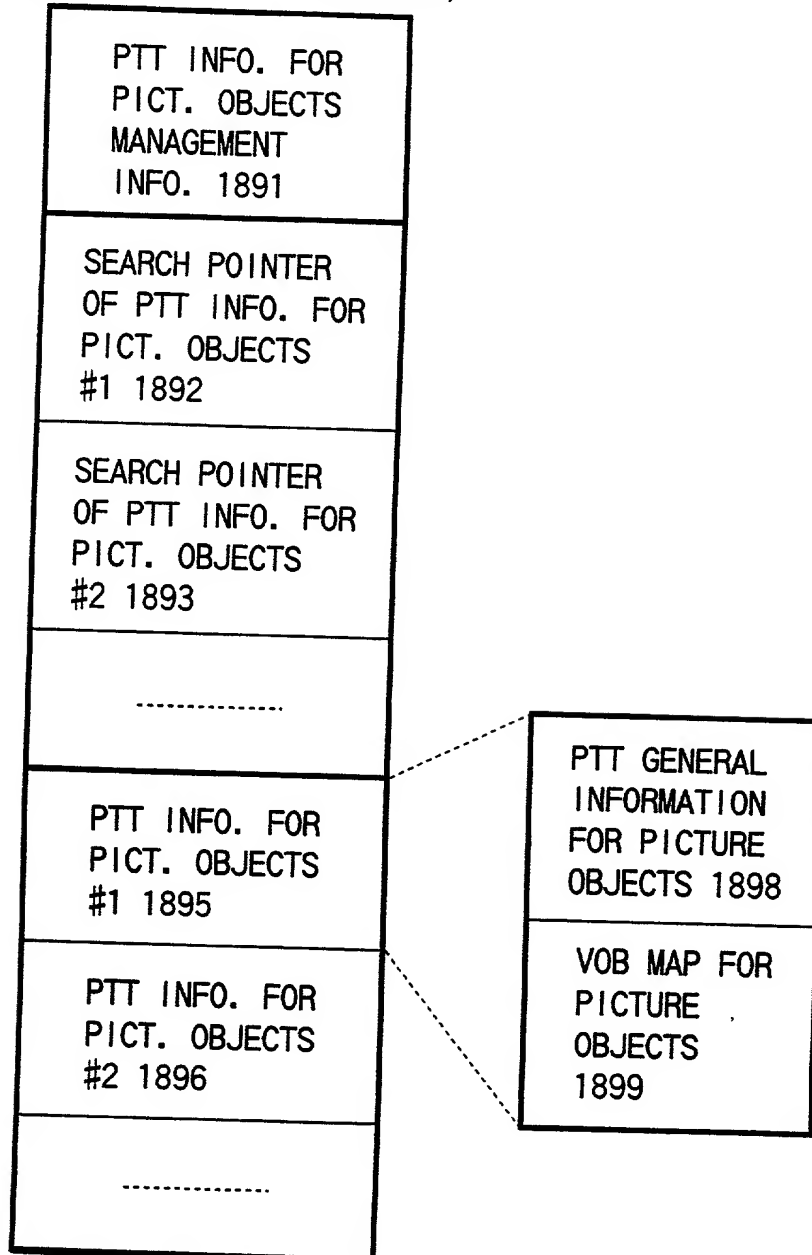


FIG. 17

10076277.021902

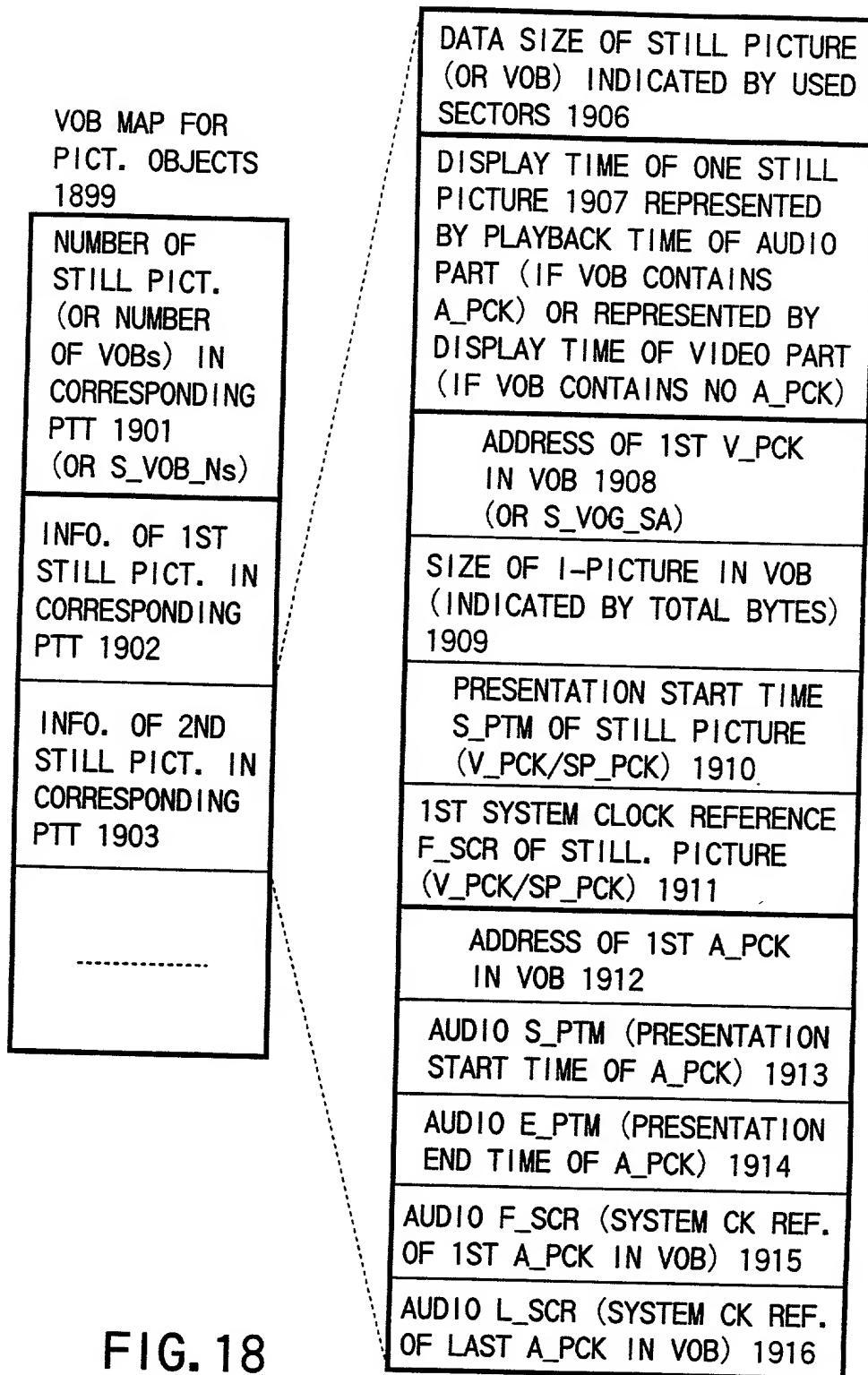


FIG. 18

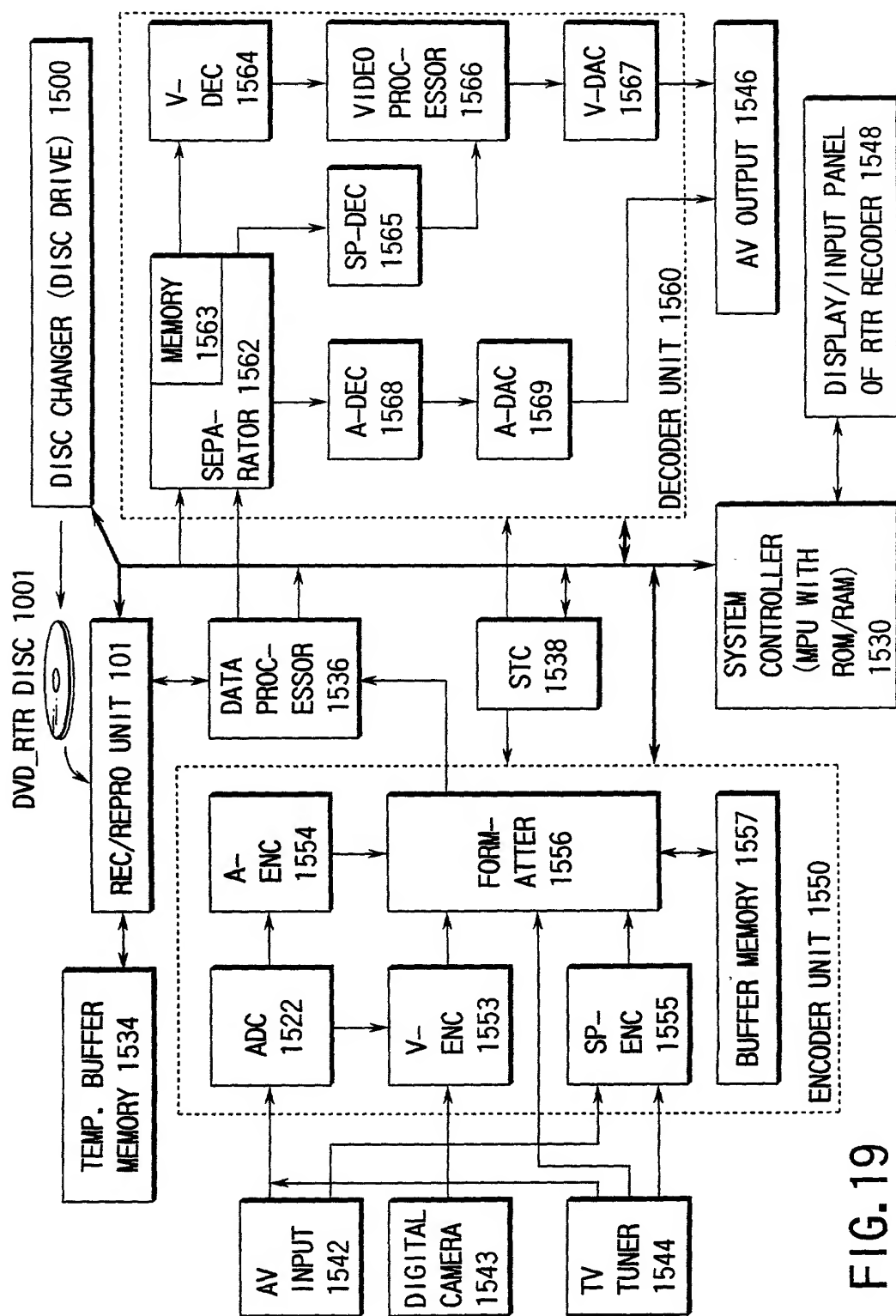


FIG. 19

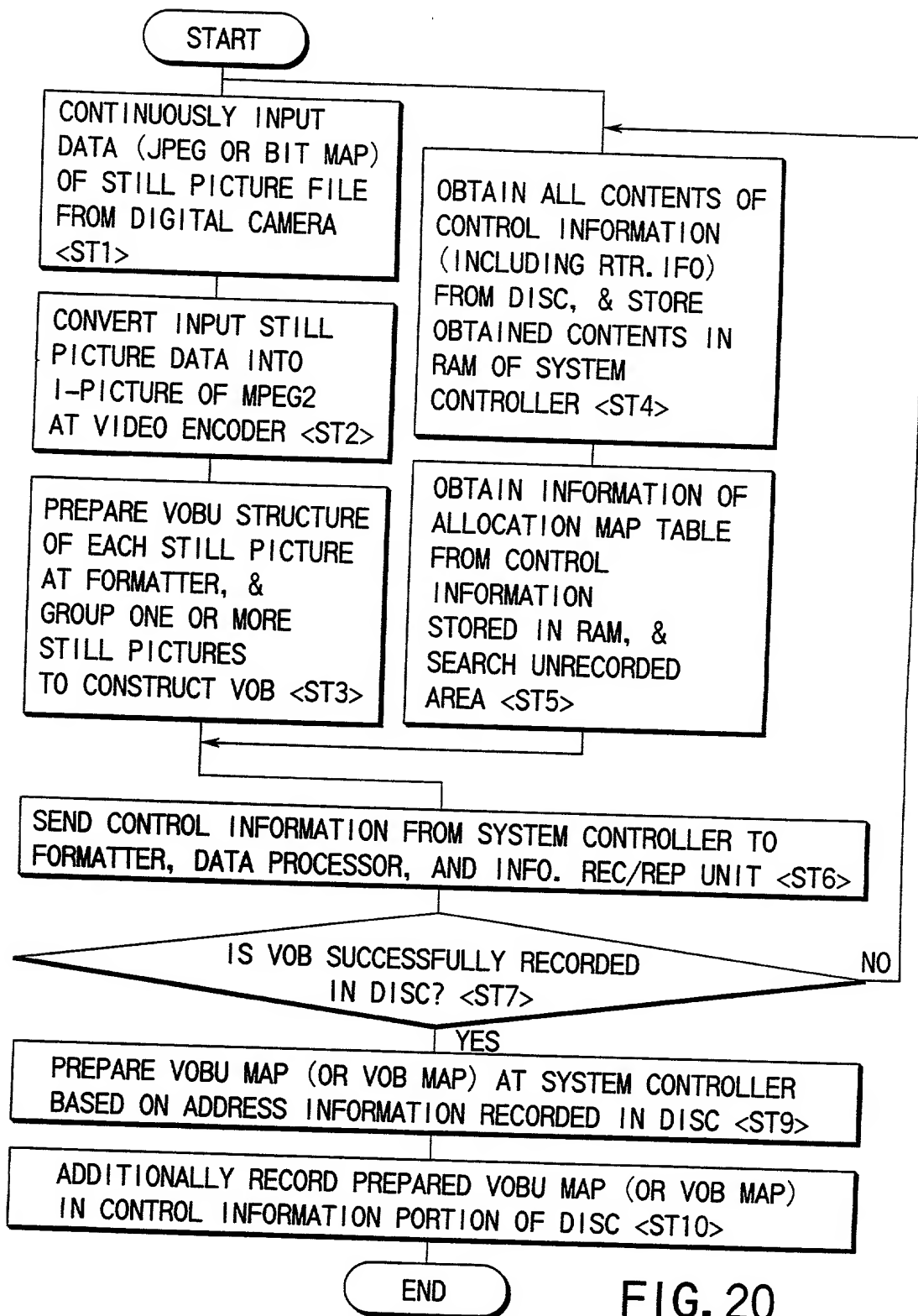


FIG. 20

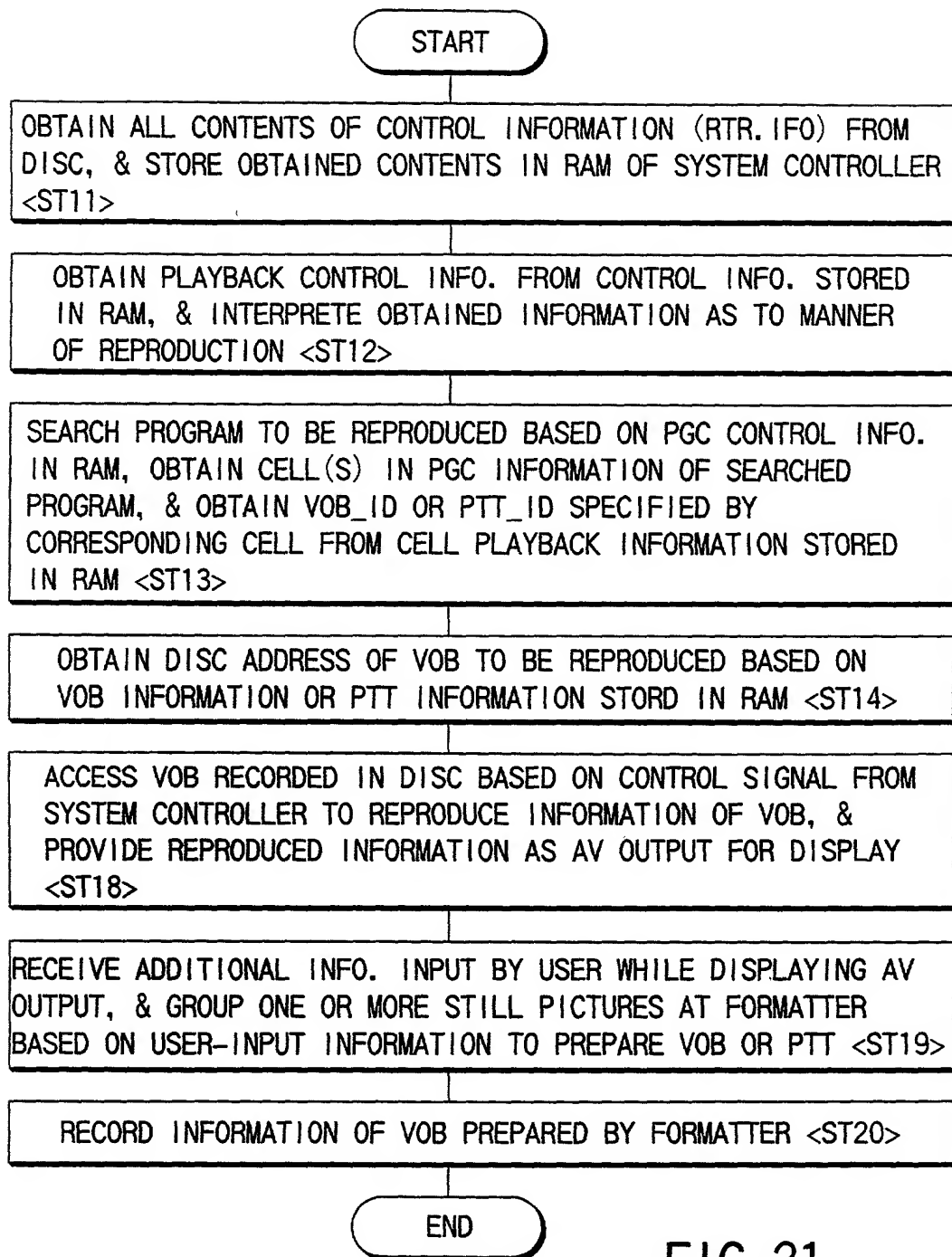


FIG. 21

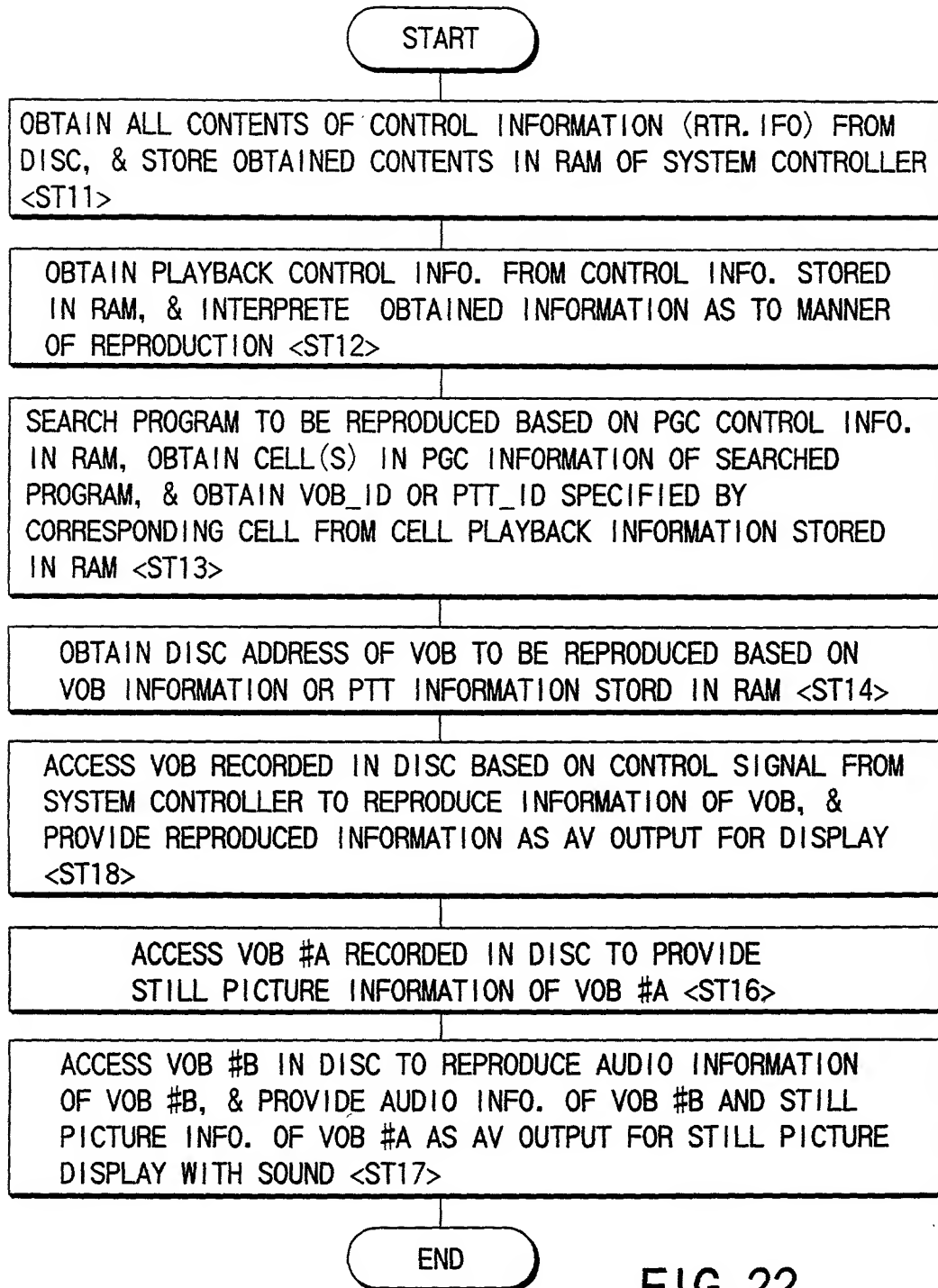


FIG. 22

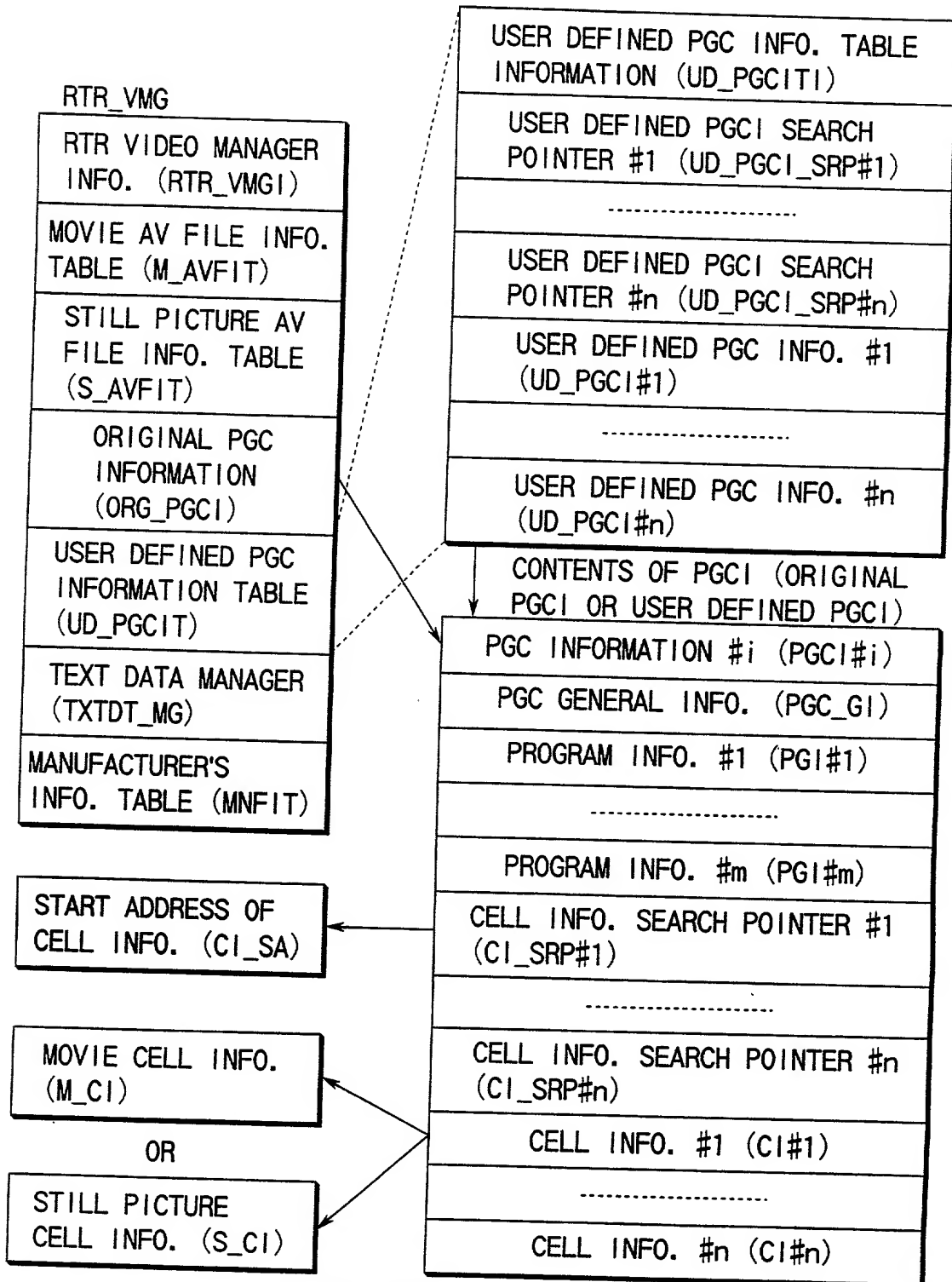


FIG. 23

10076277-021902



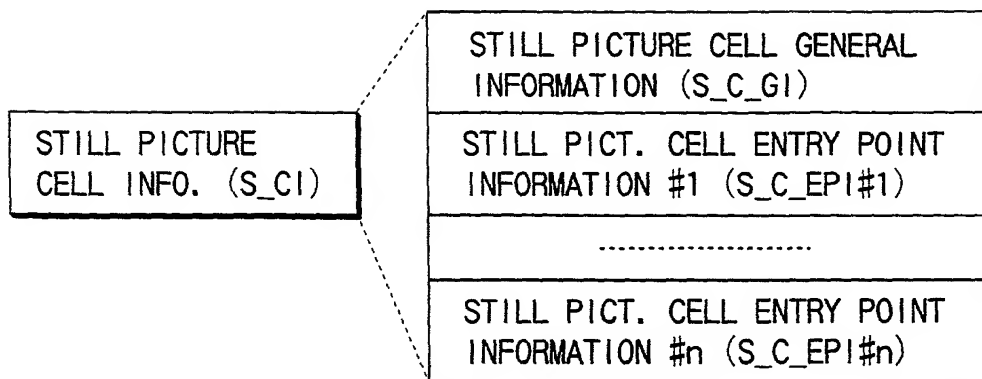


FIG. 24

CONTENTS OF S\_C\_GI

| FIELD NAME   | CONTENTS                         |
|--------------|----------------------------------|
| RESERVED     | RESERVED                         |
| C_TY         | CELL TYPE                        |
| S_VOGL_SRPN  | S_VOGL SEARCH POINTER NUMBER     |
| C_EPI_Ns     | NUMBER OF CELL ENTRY POINT INFO. |
| S_S_VOB_ENTN | START S_VOB_ENT NUMBER           |
| E_S_VOB_ENTN | END S_VOB_ENT NUMBER             |

FIG. 25

CONTENTS OF S\_C\_EPI

| FIELD NAME | CONTENTS                 |
|------------|--------------------------|
| EP_TY      | ENTRY POINT TYPE         |
| S_VOB_ENTN | S_VOB_ENT NUMBER         |
| PRM_TXTI   | PRIMARY TEXT INFORMATION |

FIG. 26

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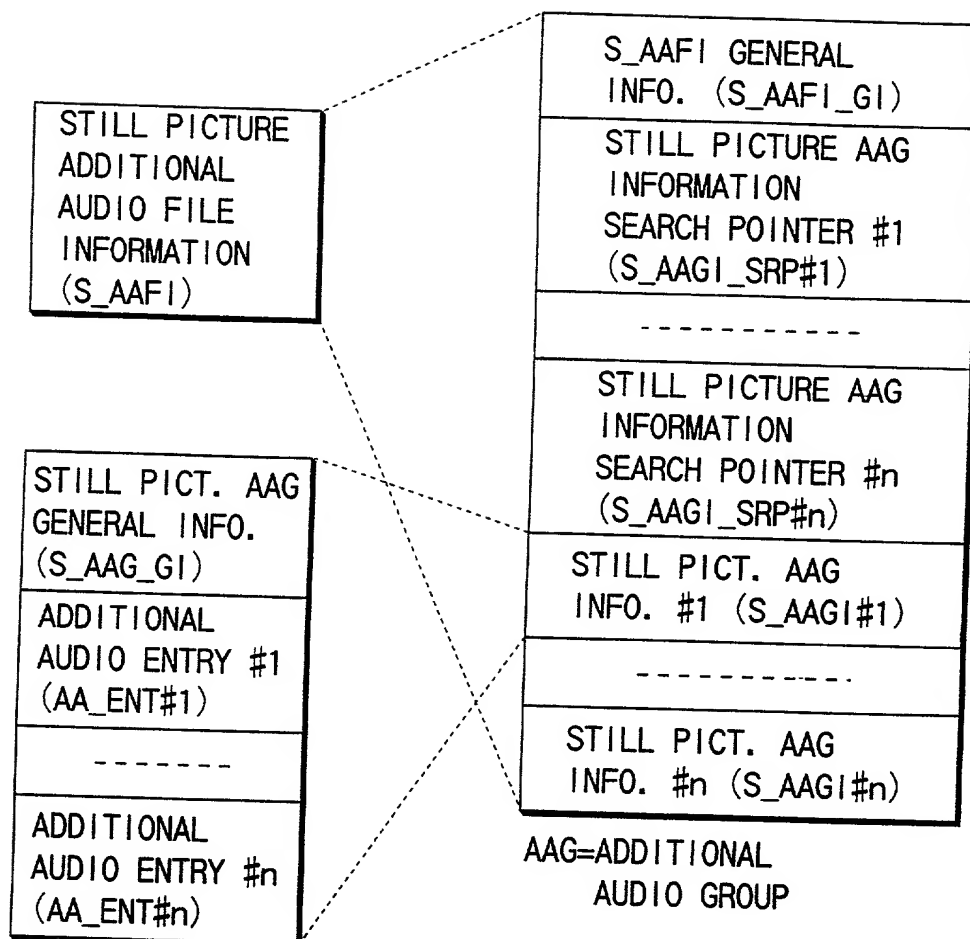


FIG. 27

| CONTENTS OF S_AAG_GI |  |
|----------------------|--|
| FIELD NAME           | CONTENTS   |
| AA_ENT_Ns            | NUMBER OF AA_ENT   |
| S_AA_STIN            | STILL PICTURE ADDITIONAL AUDIO STREAM INFORMATION NUMBER         |
| S_AAG_SA             | START ADDRESS OF THIS AAG IN STILL PICTURE ADDITIONAL AUDIO FILE |

FIG. 28

CONTENTS OF AA\_ENT

| FIELD NAME | CONTENTS  |
|------------|---|
| AA_TY      | ADDITIONAL AUDIO TYPE   |
| AA_SZ      | SIZE OF ADDITIONAL AUDIO STREAM   |
| AA_PB_TM   | PLAYBACK TIME OF<br>ADDITIONAL AUDIO STREAM<br>(MEASURED BY VIDEO FIELDS) |

FIG. 29

CONTENTS OF S\_VOG\_GI

| FIELD NAME       | CONTENTS  |
|------------------|---|
| S_VOB_Ns         | NUMBER OF S_VOBS  |
| S_VOB_STIN       | STILL PICTURE VOB STREAM<br>INFORMATION NUMBER              |
| FIRST_VOB_REC_TM | TIME WHEN THE FIRST VOB IN<br>THIS VOB GROUP WAS RECORDED   |
| LAST_VOB_REC_TM  | TIME WHEN THE LAST VOB IN<br>THIS VOB GROUP WAS RECORDED    |
| S_VOG_SA         | START ADDRESS OF THIS VOB GROUP<br>IN STILL PICTURE AV FILE |

FIG. 30

CONTENTS OF S\_VOB\_ENT (TYPE 1)

| FIELD NAME   | CONTENTS                     |
|--------------|------------------------------|
| S_VOB_ENT_TY | STILL PICTURE VOB ENTRY TYPE |
| V_PART_SZ    | SIZE OF VIDEO PART           |

FIG. 31

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CONTENTS OF S\_VOB\_ENT (TYPE 2)

| FIELD NAME   | CONTENTS   |
|--------------|--|
| S_VOB_ENT_TY | STILL PICTURE VOB ENTRY TYPE                               |
| V_PART_SZ    | SIZE OF VIDEO PART   |
| A_PART_SZ    | SIZE OF ORIGINAL AUDIO PART                                |
| A_PB_TM      | PLAYBACK TIME OF AUDIO PART<br>(DESCRIBED IN VIDEO FIELDS) |

FIG. 32

CONTENTS OF S\_VOB\_ENT (TYPE 3)

| FIELD NAME   | CONTENTS                      |
|--------------|-------------------------------|
| S_VOB_ENT_TY | STILL PICTURE VOB ENTRY TYPE  |
| V_PART_SZ    | SIZE OF VIDEO PART            |
| S_AAGN       | ADDITIONAL AUDIO GROUP NUMBER |
| AA_ENTN      | AA_ENT NUMBER                 |

FIG. 33

CONTENTS OF S\_VOB\_ENT (TYPE 4)

| FIELD NAME   | CONTENTS                      |
|--------------|-------------------------------|
| S_VOB_ENT_TY | STILL PICTURE VOB ENTRY TYPE  |
| V_PART_SZ    | SIZE OF VIDEO PART            |
| A_PART_SZ    | SIZE OF ORIGINAL AUDIO PART   |
| A_PB_TM      | PLAYBACK TIME OF AUDIO PART   |
| S_AAGN       | ADDITIONAL AUDIO GROUP NUMBER |
| AA_ENTN      | AA_ENT NUMBER                 |

FIG. 34

1007627-021902



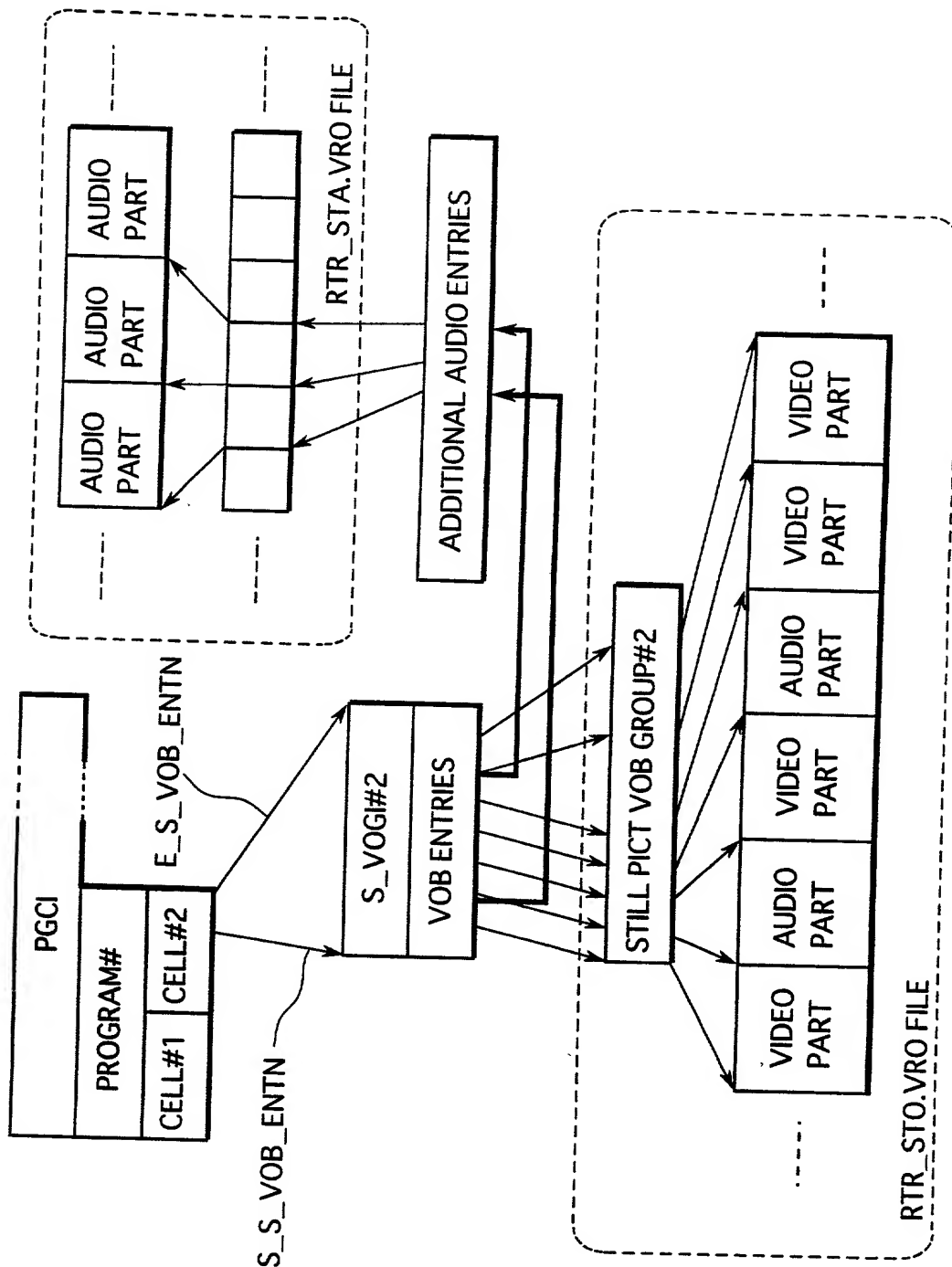


FIG. 36

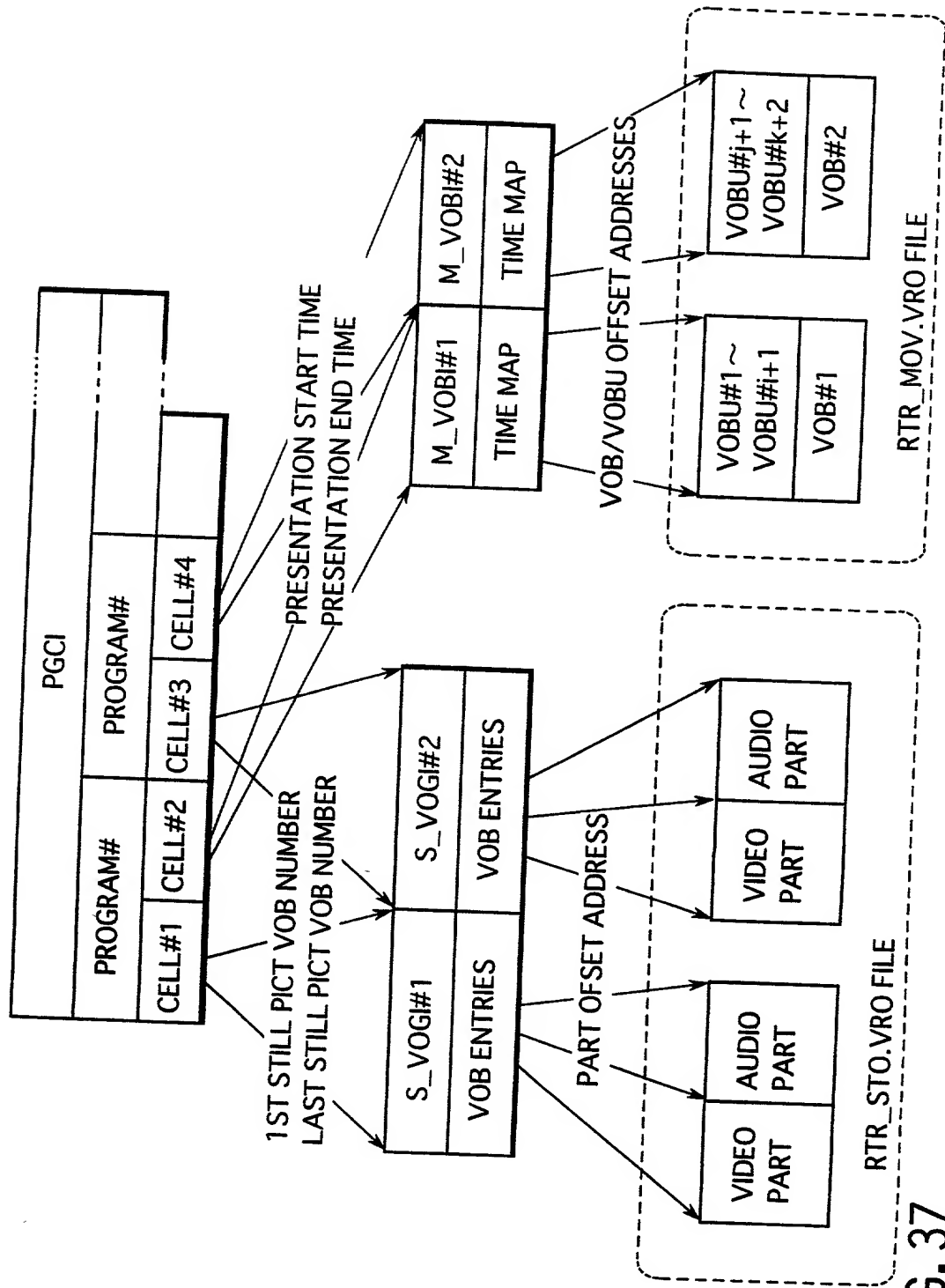


FIG. 37

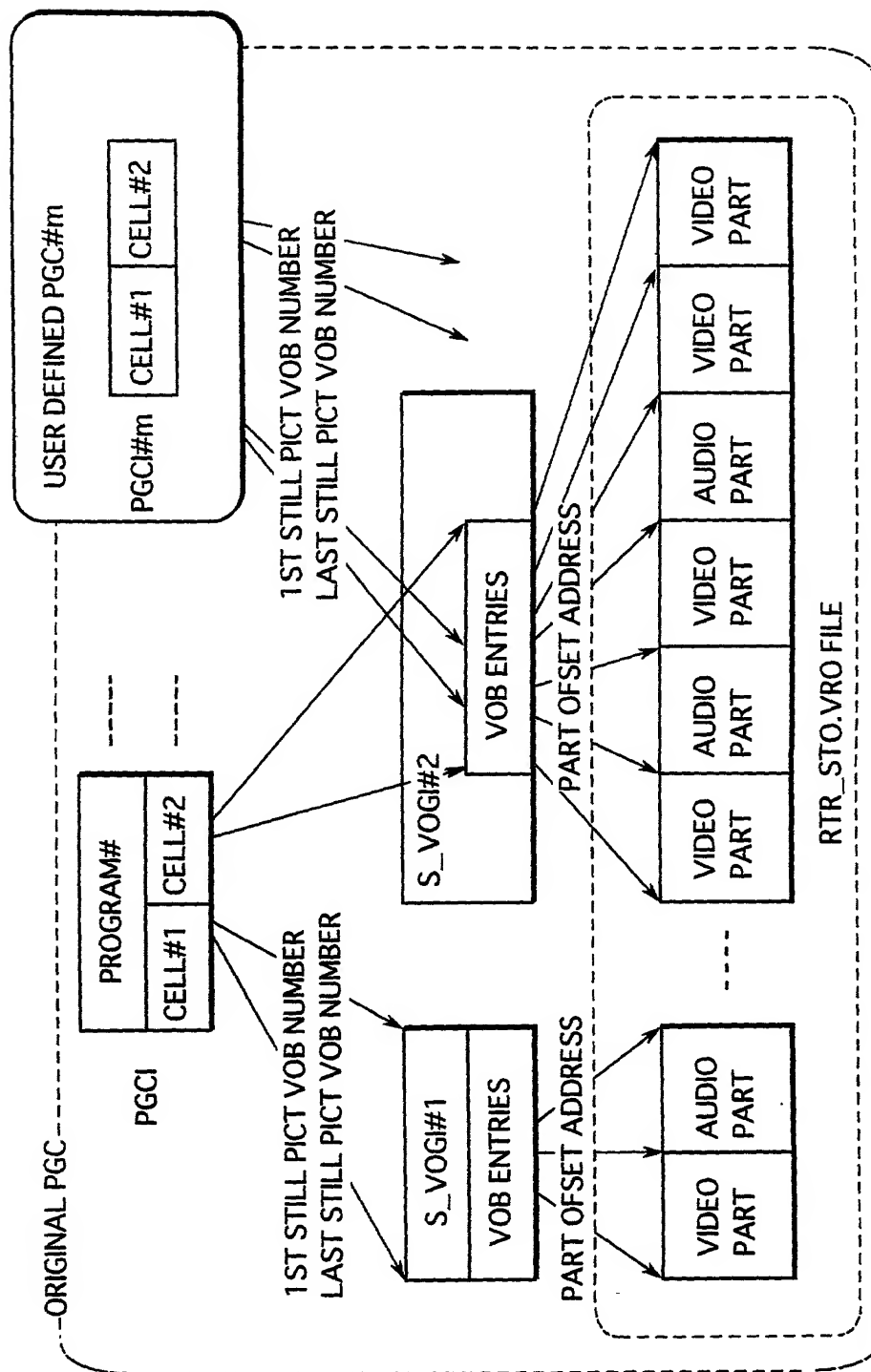


FIG. 38